

CLAIMS

1. A SiC-hexagonal ferrite type ceramic composite electromagnetic wave absorber for a high-frequency band, the
5 electromagnetic wave absorber characterized by comprising a composite sintered product of a hexagonal ferrite and SiC.

2. The electromagnetic wave absorber according to Claim 1, characterized in that SiC is produced by incorporating 1 to
5 percent by weight of SiC powder or fiber into the
• 10 hexagonal ferrite.

3. The electromagnetic wave absorber according to Claim 1, characterized in that SiC is produced by incorporating 1 to
5 percent by weight of curing-treated SiC precursor into the hexagonal ferrite.

15 4. The electromagnetic wave absorber according to any one of Claim 1 to Claim 3, characterized in that the hexagonal ferrite is of Y-type or Z-type.

5. The electromagnetic wave absorber according to Claim 4, characterized in that the hexagonal ferrite is $\text{Ba}_2\text{Ni}_2\text{Fe}_{12}\text{O}_{22}$
20 or $\text{Ba}_3\text{Co}_2\text{Fe}_{24}\text{O}_{41}$.

6. A method for producing the electromagnetic wave absorber according to Claim 2, the method characterized by comprising the steps of incorporating 1 to 5 percent by weight of SiC powder or fiber into a hexagonal ferrite together with a
25 sintering additive, followed by molding, and conducting

sintering at 700°C to 900°C.

7. A method for producing the electromagnetic wave absorber according to Claim 3, the method characterized by comprising the steps of incorporating 1 to 5 percent by weight of curing-treated SiC precursor into a hexagonal ferrite, followed by molding, and conducting sintering.